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Physician office-laboratory links software

Labs want links, so where's the problem?

Raymond D. Aller, MD

Many laboratories are seeking more effective ways to electronically connect to their clients—physician offices, clinics, and nursing homes. Yet, for some reason, even the largest vendors of such software have relatively few installations.

CAPTODAY's first survey of physician office-laboratory links, published in 1994, introduced 10 vendors of a "new genre of software products.' Eight of those companies are now defunct and the other two have gone through multiple acquisitions. New companies, such as LabDat, LabPortal and Labtest.com, have entered the scene, but they have yet to prove their staying power.

Two years ago, the "800-pound gorilla" in this marketplace was Healtheon. With enormous market capitalization, contracts with most of the national reference laboratories, and financial backing from Microsoft, most observers predicted Healtheon would be a dominant player for years to come. Today, however, operating as WebMD, the company bears little resemblance to its former self. (WebMD missed the deadline for participating in this year's physician office-lab links survey. For more information about the company's WebMD Lab Services product [formerly the Deproduct], call Kari Litz Miller at 303-590-2207.)

Another company that showed promise for several years—delivering a quality product and excellent service and amassing several satisfied, fully installed client laboratories—was Abaton.com. Even after it was acquired by McKessonHBOC, we expected that Abaton would continue to be an industry leader. But McKessonHBOC recently decided to move away from stand-alone laboratory products and the ASP model and instead concentrate on comprehensive clinical and patient record systems for integrated health care networks.

At the same time, however, some LIS vendors, such as Cerner, Sunquest, Meditech, and Triple G, are working on Internet gateway products to integrate with their laboratory information systems. With the top 10 LIS vendors providing the vast majority of the laboratory systems installed in the United States, those vendors have the potential to eventually become the dominant players in the physician office-lab links market.

Like the list of players in this field, the concept of using the Internet to establish physician-laboratory connectivity also is evolving. Many have assumed in recent years that the Internet is the only worthwhile medium for connecting physician offices and laboratories. Consistently attaining sufficient speed over such connections, however, has been problematic. We are confident that the Internet eventually will work through its speed-related issues, but in the meantime, dedicated/private networks, or even local dial-up lines, provide reasonable short-term approaches.

The following pages feature 13 products for linking the clinical lab to the physician's office. The information provided is based on vendors' responses to a questionnaire. It is crucial to speak with a vendor's clients to verify that the company provides good service and functional software. It is also worth noting that at least one company in this market, Metricom Inc., licenses its source code to provide custom installations instead of offering an off-the-shelf product. (For more information about Metricom's services, call 508-746-8407.)

Dr. Aller is vice president for medical affairs and informatics at MDS Laboratory Services (U.S.). He can be reached at raller@mdslabsus.com.

| Part 1 of 7 | Atlas Development Corp. Lori Casas Icasas@atlaslabworks.com 6351 Owensmouth Ave., Ste. 101 Woodland Hills, CA 91367 |
|--|--|
| See accompanying article | 818-340-7080/800-333-0070 www.atlaslabworks.com |
| Name of POLL software/system | Atlas LabWorks and Atlas WebLabWorks |
| First/most recent installation of software/system No. of host lab contracts signed by 2/1/01 but not yet operational No. of contracts signed between 2/1/00 and 2/1/01 Where software was developed | 1995/2001 (LabWorks), 2000/2001 (WebLabWorks) 4 (1 LabWorks/3 WebLabWorks) 8 (6 LabWorks/2 WebLabWorks) USA |
| No. of host or central labs using software clinically/No. of satellite locations installed No. of host labs that electronically transfer orders from PO* to LIS Staff to develop-install-support-other** in entire firm/in POLL division | 19/1,033 19 14-2-4-10/9-2-2-8 |
| Hardware (in addition to LIS) required in central lab?/Type and operating system | yes (if not ASP)/Intel Pentium/Windows 2000, any UNIX, Linux |
| Specialized hardware in central lab facility Software programming language, other tools or products used or integrated Database of patient orders and results housed outside client lab or PO? | none Caché, SQL, Visual Basic, Crystal Reports, others no—if client chooses to host within its own facility |
| Hardware type and operating system used in PO | LabWorks: Pentium/Windows NT workstation; WebLabWorks: Intel/Windows 95, 98, NT, IE4 |
| Specialized hardware used in PO Programming language, other tools or products used or integrated in PO | none Visual Basic, Caché, SQL, Crystal Reports, Java Script, IE4 (WebLabWorks) |
| Average time to install, build files, train office staff in a typical PO | 2 hrs |
| LIS, HIS, and other interfaces Software modifications or modules required on host LIS to interface | Antrim, Rubicon, CCA, Triple G, Sunquest, Cortex, Cerner, Atlas Care yes (HL7 orders and results interfaces) |
| | · · · · · · · · · · · · · · · · · · · |
| POPMS*** used to transfer patient demographics/billing info. to POLL system | Medical Manager, Medic, Wismer Martin, Horizon, PACE, DISC, oth |
| Can one PO simultaneously support or interface to many host labs? Test directory on PO system?/PO system can store many labs' directories at once? How results are returned to PO | yes yes (LabWorks only)/yes block of text or individually segmented fields |
| Data interface standards supported/System supports LOINC? System architecture or functionality | HL7, custom when required, XML/yes thick client PC, thin proprietary client, standard Web browsers |
| Patient order and result database maintained on local PC? Online connections between PO and central or host system | yes (thick client) virtual private network, dial-up telephone modem, public Inter connection, leased line, network |
| Complete ASP solution for POLL software? Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated | yes fixed fee or transaction-based (client's option) browser-based operates over Internet 2 by third-party (IS West) |
| · | by and party (to troot) |
| Features (listed as percentage of live installs or whether or not it's available) Order entry - Medicare compliance checking using carrier-specific rules - Advanced beneficiary notice printed if medical necessity criteria not met - Local medical review policies can be viewed - Automatic routing of an order to different labs according to payer rules - Printing of lab's requisitions/Printing of requisitions for other lab providers - Duplicate order checking/Physician office-specific panels • Electronic order entry (from P0 to host) - Transfer of patient demographics/insurance - Automatic handling of scheduled/standing orders - Automatic routing of orders to hospital/commercial labs depending on payer rules • Bar-code collection label printing | 100% 100% 100% 10% 100%/10% 100%/10% 100% 10 |
| Result receipt Stored as a block of text All items (result, reference range, units) stored as individual data elements Automatic parsing of report pages to extract results | available but not installed 100% not available |
| Inquiry mode that allows P0 to check status of specimens with host Reporting In exact format received from host lab/Cumulative Integration of host and P0 lab results Display of new results for patient and/or clinic Remote access available to on-call physicians User-defined rule-based system and alerts in P0 module Electronic transfer of data to another P0 P0 orders supplies from host lab/Specimen pickup or courier requests to host lab Other functionality | available but not installed 100%/50% available but not installed 100% 10% 20% 10%/10% |
| Billing/collections/accounts receivable Electronic claims transfer/Electronic medical record Interfaces to PO lab instruments/Interfaces to billing systems | not available not available/available but not installed available but not installed/2% |
| Length of time results are maintained online in PO system Length of time copy of original report can be reproduced by system Data from system put in electronic archive?/Index to archive maintained online? | no practical limit no practical limit not applicable/not applicable |
| System priced on a cost-per-transaction basis? Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance) Smallest system for host lab:largest system for host lab Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/For increments of Nos. of P0s? | no (LabWorks), yes (WebLabWorks) — yes/no yes/no |
| Extra license fee for each addt'l workstation at PO?/Fee based on No. of phys. of record? | |

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| Part 2 of 7 | Axolotl Corp. Nicole Roth nroth@axolotl.com 800 El Camino Real West, Ste. 150 Mountain View, CA 94040 | Cerner Corp. Julie Hull 2800 Rockcreek Parkway Kansas City, MO 64117 |
|---|---|--|
| See accompanying article on page 68 | 888-296-5685 www.axolotl.com | 816-201-1725 www.cerner.com |
| Name of POLL software/system | Elysium | ePathLink |
| First/most recent installation of software/system No. of host lab contracts signed by 2/1/01 but not yet operational No. of contracts signed between 2/1/00 and 2/1/01 Where software was developed | 1998/1998 3 7 USA | 1997/2001 1 10 USA |
| No. of host or central labs using software clinically/No. of satellite locations installed No. of host labs that electronically transfer orders from PO* to LIS Staff to develop-install-support-other** in entire firm/in POLL division | 31/2,338 5 12-10-10-77 (total) | 11/70 9 961-1,211-186-321/6-5-10-0 |
| Hardware (in addition to LIS) required in central lab?/Type and operating system | yes/Pentium PC, Windows NT | yes/dedicated Web server, Windows NT |
| Specialized hardware in central lab facility Software programming language, other tools or products used or integrated Database of patient orders and results housed outside client lab or PO? | n/a IBM Domino, TSI Soft Mercator client can choose external hosting or to host within its own facility | — Microsoft IE 4.0 and above yes—always |
| Hardware type and operating system used in PO Specialized hardware used in PO Programming language, other tools or products used or integrated in PO Average time to install, build files, train office staff in a typical PO | PC, any browser none HTML, Java 1 hr | IBM-compatible PC w/ Windows NT none Java, Visual Basic/IE 4.0/SSL 24 hrs |
| LIS, HIS, and other interfaces Software modifications or modules required on host LIS to interface | SMS, McKessonHBOC, Antrim, Cerner, Sunquest, others no | Cerner's PathNet LIS, others no |
| POPMS*** used to transfer patient demographics/billing info. to POLL system | Medrium.com | major vendors |
| Can one PO simultaneously support or interface to many host labs? Test directory on PO system?/PO system can store many labs' directories at once? How results are returned to PO | yes available centrally from browser interface/yes individually segmented fields | no no (available via real-time connection to host lab)/yes block of text or individually segmented fields |
| Data interface standards supported/System supports LOINC? System architecture or functionality | HL7, custom when required/yes standard Web browsers | HL7/yes thin proprietary client, standard Web browsers |
| Patient order and result database maintained on local PC? Online connections between PO and central or host system | no virtual private network, dial-up telephone modem, public Internet connection, leased line, satellite | no virtual private network, dial-up telephone modem, public Internet connection, leased line, dedicated ISDN |
| Complete ASP solution for POLL software? Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated | yes subscription browser-based operates over Internet 6,000 users by vendor | yes fixed fee or transaction-based browser-based operates over Internet or uses private, dedicated circuit 6 by vendor |
| Peatures (listed as percentage of live installs or whether or not it's available) Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers Duplicate order checking/Physician office-specific panels Electronic order entry (from P0 to host) Transfer of patient demographics/insurance Automatic routing of orders to hospital/commercial labs depending on payer rules Automatic routing of orders to hospital/commercial labs depending on payer rules Bar-code collection label printing Result receipt Stored as a block of text All items (result, reference range, units) stored as individual data elements Automatic parsing of report pages to extract results Inquiry mode that allows P0 to check status of specimens with host Reporting In exact format received from host lab/Cumulative Integration of host and P0 lab results Display of new results for patient and/or clinic Remote access available to on-call physicians User-defined rule-based system and alerts in P0 module Electronic transfer of data to another P0 P0 orders supplies from host lab/Specimen pickup or courier requests to host lab Other functionality Billing/collections/accounts receivable Electronic claims transfer/Electronic medical record Interfaces to P0 lab instruments/Interfaces to billing systems Length of time results are maintained online in P0 system | 100% 100% 100% not available 100%/100% not available/100% 100% 100% not available not available available but not installed not available too% available but not installed not available but not installed not available not available not available not available available/50% 100% 100% 100% available but not installed/not available available but not installed/not available available but not installed installed/30% available in 2002/available but not installed | 75% 75% 100% available but not installed 100%/available in Oct. 2001 100%/100% 100% 100% available in July 2001 available but not installed 100% 100% 100% 100% 100% 100% 100% 100 |
| Length of time copy of original report can be reproduced by system Data from system put in electronic archive?/Index to archive maintained online? | until purged yes/no | indefinitely* |
| System priced on a cost-per-transaction basis? Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance • Smallest system for host lab:largest system for host lab • Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/For increments of Nos. of P0s? Extra license fee for each addt'l workstation at P0?/Fee based on No. of phys. of record? | | — — — no/no no/no |
| Distinguishing features (supplied by vendor) | Internet-based for scalability and ease of use built on nonproprietary software for quick development | totally integrated procedure catalog with LIS/POLL solution secure and authorized access anytime and anywhere integrated compliance features with LMRP content |
| *P0=physician's office **other=sales, marketing, administration, other company functions ***P0PMS=physician office practice management systems | *starting price per user per month | *PathNet host function |
| Tabulation does not represent an endorsement by the College of American Pathologists | | |

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| | Clinical Information Systems | Cybear Inc. |
|---|--|--|
| Part 3 of 7 | Bobby I. Woolley | Ron Goff |
| | 18805 Willamette Drive | 5000 T-Rex Ave., #200 |
| | West Linn, OR 97068 | Boca Raton, FL 33431 |
| See accompanying article on page 68 | 503-699-9745/800-869-0680 www.cislab.com | 561-999-3500 www.cybear.com |
| Name of POLL software/system | PLN (physician-laboratory network) | Dr. Chart Web |
| Name of Folk Software/System | Liv (physician laboratory network) | DI. Ollar Web |
| First/most recent installation of software/system | 1997/2001 | 1999/2001 |
| No. of host lab contracts signed by 2/1/01 but not yet operational | 1 | |
| No. of contracts signed between 2/1/00 and 2/1/01 | 5 | 6 |
| Where software was developed | USA | USA |
| | | |
| No. of host or central labs using software clinically/No. of satellite locations installed | 9/32 | 20/not available |
| No. of host labs that electronically transfer orders from PO* to LIS | 1 | 7 |
| Staff to develop-install-support-other** in entire firm/in POLL division | 7–7–7–1 (total) | 28-16-12-39/8-1-1-7 |
| Hardware (in addition to LIS) required in central lab?/Type and operating system | no/— | yes/Windows NT |
| I natuwate (in addition to £15) required in central lab:/ Type and operating system | 110/— | yes/willdows N1 |
| Specialized hardware in central lab facility | _ | none |
| Software programming language, other tools or products used or integrated | _ | VCH, Visual Basic, MS SQL 7.0 |
| Database of patient orders and results housed outside client lab or PO? | never | yes—if client chooses external hosting |
| | | |
| Hardware type and operating system used in PO | PC, Windows 98 | any PC able to support IE browser |
| Specialized hardware used in PO | _ | _ |
| Programming language, other tools or products used or integrated in PO | Delphi, SQL, RDBMS, Visual Basic | Adobe Reader plug-in |
| Average time to install, build files, train office staff in a typical PO | 2 hrs | 1 hr |
| LIC UIC and other interferes | CIC lob | Citation Cunquest Mal/accord/DCC/D-Harris T. 1 C CASC |
| LIS, HIS, and other interfaces | CIS lab | Citation, Sunquest, McKessonHBOC/Pathway, Triple G, SMS, |
| Software modifications or modules required on best LIS to interfece | ves (PLN sunnort module required) | Ulticare, CoPath, others |
| Software modifications or modules required on host LIS to interface | yes (PLN support module required) | no |
| POPMS*** used to transfer patient demographics/billing info. to POLL system | Medical Manager, Dairyland, McKessonHBOC | Medical Manager, Medic, IDX, Med-Elite, Wismer Martin, others |
| | | |
| Can one PO simultaneously support or interface to many host labs? | no . | yes |
| Test directory on PO system?/PO system can store many labs' directories at once? | yes/no | no/yes |
| How results are returned to PO | individually segmented fields | individually segmented fields |
| | | |
| Data interface standards supported/System supports LOINC? | ASTM 1238, HL7, custom when required/yes | ASTM 1238, HL7, ANSI X12, custom when required/yes |
| System architecture or functionality | thick client PC, modified and standard Web browsers | thin proprietary client, standard Web browsers |
| Patient order and result database maintained on local PC? | yes | no |
| Online connections between PO and central or host system | virtual private network, dial-up telephone modem, public Internet | virtual private network, dial-up telephone modem, public Internet |
| Simile connections between 1 o and contact of neet system | connection, leased line | connection, leased line |
| | | |
| Complete ASP solution for POLL software? | yes | yes |
| Method of charging for ASP service | fixed fee or monthly rental | fixed fee |
| Client software required | browser-based | browser-based |
| ASP information conduit | operates over Internet | operates over Internet |
| Client contracts supported from data center not operated by client | 6 | _ |
| How data center is operated | by vendor | by vendor |
| | | |
| Eastures (listed as persentage of live installs or whether or not it's available) | | |
| Features (listed as percentage of live installs or whether or not it's available) | | |
| • Order entry | 50% | 20% |
| Order entry Medicare compliance checking using carrier-specific rules | 50% 50% | 20% 100% |
| Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met | 50% 50% 33% | 20% 100% 100% |
| Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed | 50% | 100% |
| Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met | 50% 33% | 100% 100% |
| Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules | 50% 33% not available | 100% 100% 100% |
| Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers | 50% 33% not available 100%/not available | 100% 100% 100% 100%/100% |
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| Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers Duplicate order checking/Physician office-specific panels Electronic order entry (from P0 to host) Transfer of patient demographics/insurance Automatic handling of scheduled/standing orders Automatic routing of orders to hospital/commercial labs depending on payer rules | 50% 33% not available 100%/not available 33%/33% — 100% 100% 50% | 100% 100% 100% 100%/100% 100%/100% 20% 60% 20% |
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| Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers Duplicate order checking/Physician office-specific panels Electronic order entry (from P0 to host) Transfer of patient demographics/insurance Automatic handling of scheduled/standing orders Automatic routing of orders to hospital/commercial labs depending on payer rules Bar-code collection label printing Result receipt Stored as a block of text | 50% 33% not available 100%/not available 33%/33% — 100% 100% 50% 33% | 100% 100% 100% 100%/100% 100%/100% 20% 60% 20% 20% 50% available but not installed |
| Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers Duplicate order checking/Physician office-specific panels Electronic order entry (from P0 to host) Transfer of patient demographics/insurance Automatic handling of scheduled/standing orders Automatic routing of orders to hospital/commercial labs depending on payer rules Bar-code collection label printing Result receipt Stored as a block of text All items (result, reference range, units) stored as individual data elements | 50% 33% not available 100%/not available 33%/33% — 100% 100% 50% 33% not available 100% | 100% 100% 100% 100%/100% 100%/100% 20% 60% 20% 20% 50% available but not installed 100% |
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| Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers Duplicate order checking/Physician office-specific panels Electronic order entry (from P0 to host) Transfer of patient demographics/insurance Automatic handling of scheduled/standing orders Automatic routing of orders to hospital/commercial labs depending on payer rules Bar-code collection label printing Result receipt Stored as a block of text All items (result, reference range, units) stored as individual data elements Automatic parsing of report pages to extract results Inquiry mode that allows P0 to check status of specimens with host | 50% 33% not available 100%/not available 33%/33% — 100% 100% 50% 33% not available 100% | 100% 100% 100% 100%/100% 100%/100% 20% 60% 20% 20% 50% available but not installed 100% |
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| Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers Duplicate order checking/Physician office-specific panels Electronic order entry (from P0 to host) Transfer of patient demographics/insurance Automatic handling of scheduled/standing orders Automatic routing of orders to hospital/commercial labs depending on payer rules Bar-code collection label printing Result receipt Stored as a block of text All items (result, reference range, units) stored as individual data elements Automatic parsing of report pages to extract results Inquiry mode that allows P0 to check status of specimens with host | 50% 33% not available 100%/not available 33%/33% — 100% 100% 50% 33% not available 100% not available 100% | 100% 100% 100% 100%/100% 100%/100% 20% 60% 20% 20% 50% available but not installed 100% not available 20% |
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STATERES

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| | LabDat Inc. | LabPortal Inc. |
|---|---|--|
| Part 4 of 7 | Gary Burkhartsmeier garyb@labdat.com | Alicia Saia |
| | 644 E. Central Ave., 16th floor | 14151 Newbrook Drive, Ste. 200 |
| | Glendale, CA 91203 | Chantilly, VA 20151 |
| San accompanying article on page 69 | 800-616-8202 www.labdat.com | 703-480-0397 www.labportal.com |
| See accompanying article on page 68 | | · |
| Name of POLL software/system | LabDat.com | LabPortal |
| | | |
| First/most recent installation of software/system | 2000/2001 | 2001/2001 |
| No. of host lab contracts signed by 2/1/01 but not yet operational | 0 | 6 |
| No. of contracts signed between 2/1/00 and 2/1/01 | 2 | 6 |
| Where software was developed | USA | USA |
| | | |
| No. of host or central labs using software clinically/No. of satellite locations installed | 2/310 | 3/3 |
| No. of host labs that electronically transfer orders from PO* to LIS | 2 | 2 |
| Staff to develop-install-support-other** in entire firm/in POLL division | 3-2-5-0 (total) | 16-3-3-11.5 (total) |
| | | |
| Hardware (in addition to LIS) required in central lab?/Type and operating system | no/— | no/— |
| Specialized hardware in central lab facility | _ | _ |
| Software programming language, other tools or products used or integrated | - | |
| Database of patient orders and results housed outside client lab or PO? | always | client can choose external hosting or to host within its own |
| | | facility |
| | | |
| Hardware type and operating system used in PO | IBM-compatible PC or Mac/Windows 95, 98, 2000 | Pentium PC, Windows 95, 98, 2000, NT |
| Specialized hardware used in PO | none | none |
| Programming language, other tools or products used or integrated in PO | none | IE browser 5.0+ with 128-bit encryption |
| Average time to install, build files, train office staff in a typical PO | 1 hr | 1 hr |
| | | |
| LIS, HIS, and other interfaces | Clinical Information Systems | Sunquest, Cerner, proprietary/homegrown systems |
| Software modifications or modules required on host LIS to interface | yes (network order receipt) | no |
| POPMONE II I I I I I I I I I I I I I I I I I | | C |
| POPMS*** used to transfer patient demographics/billing info. to POLL system | Medical Manager | finalizing agreement for POPMS interface tool |
| | | |
| Can one PO simultaneously support or interface to many host labs? | yes | yes |
| Test directory on PO system?/PO system can store many labs' directories at once? | no/yes | no/no (available through system) |
| How results are returned to PO | individually segmented fields | block of text or individually segmented fields |
| | | |
| *** *** | ASTM 1238, HL7, ANSI X12, custom when required/yes | ASTM 1238, HL7, ANSI X12, custom when required/yes |
| System architecture or functionality | thick client PC, thin proprietary client, modified and standard | standard Web browsers |
| | Web browsers | |
| | | |
| Patient order and result database maintained on local PC? | no . | no |
| Online connections between PO and central or host system | public Internet connection | virtual private network, dial-up telephone modem, public Internet |
| | | connection, leased line |
| | | |
| Complete ASP solution for POLL software? | yes | yes |
| | transaction-based or subscription | monthly fixed fee |
| Client software required | browser-based | browser-based |
| ASP information conduit | operates over Internet | operates over Internet |
| Client contracts supported from data center not operated by client | _ | 5 |
| | | |
| How data center is operated | by vendor | by vendor |
| <u> </u> | by vendor | by vendor |
| Features (listed as percentage of live installs or whether or not it's available) | by vendor | by vendor |
| Features (listed as percentage of live installs or whether or not it's available) • Order entry | · | |
| Features (listed as percentage of live installs or whether or not it's available) • Order entry - Medicare compliance checking using carrier-specific rules | 100% | 100% |
| Features (listed as percentage of live installs or whether or not it's available) • Order entry - Medicare compliance checking using carrier-specific rules - Advanced beneficiary notice printed if medical necessity criteria not met | 100% 100% | 100% 100% |
| Features (listed as percentage of live installs or whether or not it's available) • Order entry - Medicare compliance checking using carrier-specific rules - Advanced beneficiary notice printed if medical necessity criteria not met - Local medical review policies can be viewed | 100% 100% not available | 100% 100% 100% |
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| Peatures (listed as percentage of live installs or whether or not it's available) Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers Duplicate order checking/Physician office-specific panels Electronic order entry (from P0 to host) Transfer of patient demographics/insurance Automatic routing of orders to hospital/commercial labs depending on payer rules Bar-code collection label printing Bar-code collection label printing Result receipt Stored as a block of text All items (result, reference range, units) stored as individual data elements Automatic parsing of report pages to extract results Inquiry mode that allows P0 to check status of specimens with host Reporting In exact format received from host lab/Cumulative Integration of host and P0 lab results Display of new results for patient and/or clinic Remote access available to on-call physicians User-defined rule-based system and alerts in P0 module Electronic transfer of data to another P0 P0 orders supplies from host lab/Specimen pickup or courier requests to host lab Other functionality Billing/collections/accounts receivable Electronic claims transfer/Electronic medical record Interfaces to P0 lab instruments/Interfaces to billing systems Length of time results are maintained online in P0 system Length of time copy of original report can be reproduced by system Data from system put in electronic archive?/Index to archive maintained online? System priced on a cost-per-transaction basis? Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance) Smallest system for host lab:largest system for host lab | 100% 100% 100% 100%/100% 100%/100% 100% | 100% 100% 100% 100%/100% 100%/100% 100% |
| Peatures (listed as percentage of live installs or whether or not it's available) Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers Duplicate order checking/Physician office-specific panels Electronic order entry (from P0 to host) Transfer of patient demographics/insurance Automatic handling of scheduled/standing orders Automatic routing of orders to hospital/commercial labs depending on payer rules Bar-code collection label printing Result receipt Stored as a block of text All items (result, reference range, units) stored as individual data elements Automatic parsing of report pages to extract results Inquiry mode that allows P0 to check status of specimens with host Reporting In exact format received from host lab/Cumulative Integration of host and P0 lab results Display of new results for patient and/or clinic Remote access available to on-call physicians User-defined rule-based system and alerts in P0 module Electronic transfer of data to another P0 P0 orders supplies from host lab/Specimen pickup or courier requests to host lab Other functionality Billing/collections/accounts receivable Electronic claims transfer/Electronic medical record Interfaces to P0 lab instruments/Interfaces to billing systems Length of time results are maintained online in P0 system Length of time results are maintained online in P0 system Data from system put in electronic archive?/Index to archive maintained online? System priced on a cost-per-transaction basis? Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance) Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/Foe based on No. of phys. of record? | 100% 100% 100% 100%/100% 100%/100% 100% | 100% 100% 100% 100%/100% 100%/100% 100% |
| Peatures (listed as percentage of live installs or whether or not it's available) Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers Duplicate order checking/Physician office-specific panels Electronic order entry (from P0 to host) Transfer of patient demographics/insurance Automatic handling of scheduled/standing orders Automatic handling of scheduled/standing orders Automatic routing of orders to hospital/commercial labs depending on payer rules Bar-code collection label printing Result receipt Stored as a block of text All items (result, reference range, units) stored as individual data elements Automatic parsing of report pages to extract results Inquiry mode that allows P0 to check status of specimens with host Reporting In exact format received from host lab/Cumulative Integration of host and P0 lab results Display of new results for patient and/or clinic Remote access available to on-call physicians User-defined rule-based system and alerts in P0 module Electronic transfer of data to another P0 P0 orders supplies from host lab/Specimen pickup or courier requests to host lab Other functionality Billing/collections/accounts receivable Electronic claims transfer/Electronic medical record Interfaces to P0 lab instruments/Interfaces to billing systems Length of time results are maintained online in P0 system Length of time copy of original report can be reproduced by system Data from system put in electronic archive?/Index to archive maintained online? System priced on a cost-per-transaction basis? Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance) Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/For increments of Nos. of P0s? | 100% 100% 100% 100%/100% 100%/100% 100% | 100% 100% 100% 100%/100% 100%/100% 100% |
| Peatures (listed as percentage of live installs or whether or not it's available) Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers Duplicate order checking/Physician office-specific panels Electronic order entry (from P0 to host) Transfer of patient demographics/insurance Automatic handling of scheduled/standing orders Automatic routing of orders to hospital/commercial labs depending on payer rules Bar-code collection label printing Result receipt Stored as a block of text All items (result, reference range, units) stored as individual data elements Automatic parsing of report pages to extract results Inquiry mode that allows P0 to check status of specimens with host Reporting In exact format received from host lab/Cumulative Integration of host and P0 lab results Display of new results for patient and/or clinic Remote access available to on-call physicians User-defined rule-based system and alerts in P0 module Electronic transfer of data to another P0 P0 orders supplies from host lab/Specimen pickup or courier requests to host lab Other functionality Billing/collections/accounts receivable Electronic claims transfer/Electronic medical record Interfaces to P0 lab instruments/Interfaces to billing systems Length of time results are maintained online in P0 system Length of time results are maintained online in P0 system Data from system put in electronic archive?/Index to archive maintained online? System priced on a cost-per-transaction basis? Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance) Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/Foe based on No. of phys. of record? | 100% 100% 100% 100%/100% 100%/100% 100% | 100% 100% 100% 100%/100% 100%/100% 100% |
| Peatures (listed as percentage of live installs or whether or not it's available) Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers Duplicate order checking/Physician office-specific panels Electronic order entry (from P0 to host) Transfer of patient demographics/insurance Automatic routing of orders to hospital/commercial labs depending on payer rules Bar-code collection label printing Result receipt Stored as a block of text All items (result, reference range, units) stored as individual data elements Automatic parsing of report pages to extract results Inquiry mode that allows P0 to check status of specimens with host Reporting In exact format received from host lab/Cumulative Integration of host and P0 lab results Display of new results for patient and/or clinic Remote access available to on-call physicians User-defined rule-based system and alerts in P0 module Electronic transfer of data to another P0 P0 orders supplies from host lab/Specimen pickup or courier requests to host lab Other functionality Billing/collections/accounts receivable Electronic claims transfer/Electronic medical record Interfaces to P0 lab instruments/Interfaces to billing systems Length of time results are maintained online in P0 system Length of time results are maintained online in P0 system Length of time results are maintained online in P0 system System priced on a cost-per-transaction basis? Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance) Smallest system for P0:largest system for host lab Smallest system for P0:largest system for host lab | 100% 100% 100% 100%/100% 100%/100% 100% | 100% 100% 100% 100%/100% 100%/100% 100% |
| Peatures (listed as percentage of live installs or whether or not it's available) Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers Duplicate order checking/Physician office-specific panels Electronic order entry (from P0 to host) Transfer of patient demographics/insurance Automatic handling of scheduled/standing orders Automatic routing of orders to hospital/commercial labs depending on payer rules Bar-code collection label printing Result receipt Stored as a block of text All items (result, reference range, units) stored as individual data elements Automatic parsing of report pages to extract results Inquiry mode that allows P0 to check status of specimens with host Reporting In exact format received from host lab/Cumulative Integration of host and P0 lab results Display of new results for patient and/or clinic Remote access available to on-call physicians User-defined rule-based system and alerts in P0 module Electronic transfer of data to another P0 P0 orders supplies from host lab/Specimen pickup or courier requests to host lab Other functionality Billing/collections/accounts receivable Electronic claims transfer/Electronic medical record Interfaces to P0 lab instruments/Interfaces to billing systems Length of time results are maintained online in P0 system Length of time results are maintained online in P0 system Length of time copy of original report can be reproduced by system Data from system put in electronic archive?/index to archive maintained online? System priced on a cost-per-transaction basis? Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance) Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/F | 100% 100% 100% 100%/100% 100%/100% 100% | 100% 100% 100% 100%/100% 100%/100% 100% |
| • Order entry • Order entry • Medicare compliance checking using carrier-specific rules • Advanced beneficiary notice printed if medical necessity criteria not met • Local medical review policies can be viewed • Automatic routing of an order to different labs according to payer rules • Printing of lab's requisitions/Printing of requisitions for other lab providers • Duplicate order checking/Physician office-specific panels • Electronic order entry (from P0 to host) • Transfer of patient demographics/insurance • Automatic handling of scheduled/standing orders • Automatic handling of scheduled/standing orders • Automatic routing of orders to hospital/commercial labs depending on payer rules • Bar-code collection label printing • Result receipt • Stored as a block of text • All items (result, reference range, units) stored as individual data elements • Automatic parsing of report pages to extract results • Inquiry mode that allows P0 to check status of specimens with host • Reporting • In exact format received from host lab/Cumulative • Integration of host and P0 lab results • Display of new results for patient and/or clinic • Remote access available to on-call physicians • User-defined rule-based system and alerts in P0 module • Electronic transfer of data to another P0 • P0 orders supplies from host lab/Specimen pickup or courier requests to host lab • Other functionality • Billing/collections/accounts receivable • Electronic claims transfer/Electronic medical record • Interfaces to P0 lab instruments/Interfaces to billing systems Length of time results are maintained online in P0 system Length of time copy of original report can be reproduced by system Data from system put in electronic archive?/Index to archive maintained online? System priced on a cost-per-transaction basis? Cost (hardware/one-time software license fee/mo. lic. fee/implement, fee/mo. maintenance) • Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/For increments of | 100% 100% 100% 100%/100% 100%/100% 100% | 100% 100% 100% 100%/100% 100%/100% 100% |
| Peatures (listed as percentage of live installs or whether or not it's available) Order entry Medicare compliance checking using carrier-specific rules Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers Duplicate order checking/Physician office-specific panels Electronic order entry (from P0 to host) Transfer of patient demographics/insurance Automatic handling of scheduled/standing orders Automatic routing of orders to hospital/commercial labs depending on payer rules Bar-code collection label printing Result receipt Stored as a block of text All items (result, reference range, units) stored as individual data elements Automatic parsing of report pages to extract results Inquiry mode that allows P0 to check status of specimens with host Reporting In exact format received from host lab/Cumulative Integration of host and P0 lab results Display of new results for patient and/or clinic Remote access available to on-call physicians User-defined rule-based system and alerts in P0 module Electronic transfer of data to another P0 P0 orders supplies from host lab/Specimen pickup or courier requests to host lab Other functionality Billing/collections/accounts receivable Electronic claims transfer/Electronic medical record Interfaces to P0 lab instruments/Interfaces to billing systems Length of time results are maintained online in P0 system Length of time copy of original report can be reproduced by system Length of time copy of original report can be reproduced by system Length of time copy of original report can be reproduced by system Length of time copy of original report can be reproduced by system Length of time results are maintained online in P0 system Length of time results are maintained online in P0 system Length of time results are maintained online in P0 | 100% 100% 100% 100%/100% 100%/100% 100% | 100% 100% 100% 100%/100% 100%/100% 100% |

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| Part 5 of 7 See accompanying article on page 68 | Labtest.com Inc. William Seay wseay@labtest.com 140 Greenwood Ave. Midland Park, NJ 07432 201-447-9991 www.labtest.com | Labtest.com Inc. William Seay wseay@labtest.com 140 Greenwood Ave. Midland Park, NJ 07432 201-447-9991 www.labtest.com |
|---|---|---|
| Name of POLL software/system | Concierge | Valet Desktop |
| First/most recent installation of software/system No. of host lab contracts signed by 2/1/01 but not yet operational No. of contracts signed between 2/1/00 and 2/1/01 Where software was developed | 2000/2001 4 pilot sites 2 USA | 2001/2001 0 0 USA |
| No. of host or central labs using software clinically/No. of satellite locations installed No. of host labs that electronically transfer orders from PO* to LIS Staff to develop-install-support-other** in entire firm/in POLL division | 3/1,000 physicians 2 4-1-2-3 (total) | 1/10 offices 1 4-1-2-3 (total) |
| Hardware (in addition to LIS) required in central lab?/Type and operating system Specialized hardware in central lab facility Software programming language, other tools or products used or integrated Database of patient orders and results housed outside client lab or PO? | no/— — yes—if client chooses external hosting | no/— — yes—if client chooses external hosting |
| Hardware type and operating system used in PO Specialized hardware used in PO Programming language, other tools or products used or integrated in PO Average time to install, build files, train office staff in a typical PO | Internet/Web browser (IE, Netscape) — — — 0–1 hr | Windows 95, 98, 2000, NT, ME — Java 1 hr |
| LIS, HIS, and other interfaces Software modifications or modules required on host LIS to interface | Antrim/Sunquest no | Antrim/Sunquest no |
| POPMS*** used to transfer patient demographics/billing info. to POLL system | none | Medic, MediBase, Datamedic, Alphatex, Medical Manager, many others |
| Can one PO simultaneously support or interface to many host labs? Test directory on PO system?/PO system can store many labs' directories at once? How results are returned to PO | yes no/yes individually segmented fields | yes yes/yes individually segmented fields |
| Data interface standards supported/System supports LOINC? System architecture or functionality | ASTM 1238, HL7, ANSI X12, custom when required, XML/yes standard Web browsers | ASTM 1238, HL7, ANSI X12, custom when required, XML/yes thin proprietary client |
| Patient order and result database maintained on local PC? Online connections between PO and central or host system | no virtual private network, dial-up telephone modem, public Internet connection, leased line, DSL | yes virtual private network, dial-up telephone modem, public Internet connection, leased line, DSL |
| Complete ASP solution for POLL software? Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated | yes subscription browser-based operates over Internet 1 by vendor | yes subscription requires software be installed on client PC operates over Internet 1 by vendor |
| Features (listed as percentage of live installs or whether or not it's available) • Order entry - Medicare compliance checking using carrier-specific rules | 70% | 100% |
| Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed Automatic routing of an order to different labs according to payer rules Printing of lab's requisitions/Printing of requisitions for other lab providers Duplicate order checking/Physician office-specific panels Electronic order entry (from P0 to host) Transfer of patient demographics/insurance Automatic handling of scheduled/standing orders Automatic routing of orders to hospital/commercial labs depending on payer rules Bar-code collection label printing | 70% available but not installed 70% 70%/70% 70%/70% 70% available but not installed 70% 70% | 100% available but not installed 100% 100%/100% 100%/100% — 100% available but not installed 100% 100% |
| Result receipt Stored as a block of text All items (result, reference range, units) stored as individual data elements Automatic parsing of report pages to extract results Inquiry mode that allows P0 to check status of specimens with host Reporting | 100% 100% 100% available but not installed | 100% 100% 100% available but not installed |
| In exact format received from host lab/Cumulative Integration of host and PO lab results Display of new results for patient and/or clinic Remote access available to on-call physicians User-defined rule-based system and alerts in PO module Electronic transfer of data to another PO PO orders supplies from host lab/Specimen pickup or courier requests to host lab Other functionality Billing/collections/accounts receivable Electronic claims transfer/Electronic medical record Interfaces to PO lab instruments/Interfaces to billing systems | 100%/100% available in Sept. 2001 100% 100% 100% available but not installed 100%/available but not installed 100% 100% available but not installed | 100%/100% available in Sept. 2001 100% 100% 100% available but not installed 100%/available but not installed 100% 100% available but not installed |
| Length of time results are maintained online in PO system Length of time copy of original report can be reproduced by system Data from system put in electronic archive?/Index to archive maintained online? | indefinitely indefinitely n/a | indefinitely indefinitely n/a |
| System priced on a cost-per-transaction basis? Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance) • Smallest system for host lab:largest system for host lab • Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/For increments of Nos. of P0s? Extra license fee for each addt'l workstation at P0?/Fee based on No. of phys. of record? | \$0/\$0/\$1k/\$0/\$0:\$80k/\$60k/\$2.5k/\$0/\$2.5k \$0/\$0/\$.025k/\$0/\$0:\$.0/\$0/\$.065k/\$0/\$0k* yes/no | no \$0/\$0/\$1k/\$0/\$0:\$0/\$0/\$1k/\$0/\$0 \$0/\$0/\$.04k/\$0/\$0:\$0/\$0/\$.04k/\$0/\$0 yes/no no/yes |
| Distinguishing features (supplied by vendor) | no hidden charges to doctor can route/redirect individual tests at ordering based on insurance rules filtering and sorting of result data to facilitate patient | no hidden charges to doctor—lab pays for software software performs scheduled or manual "synch" to the Internet server, uploads orders, downloads results no full-time Internet connection required |
| *PO=physician's office **other=sales, marketing, administration, other company functions ***POPMS=physician office practice management systems | * cost to lab, not PO | |

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| | Netsteps Inc. | ProxyMed Inc. |
|---|---|---|
| Part 6 of 7 | Alan Gornik alan.gornik@netsteps.net | Eric Arnson eric.arnson@keycom.com |
| | 1 Pierce Place, Ste. 500E | 2633 Grant Line Rd., P.O. Box 109 |
| | Itasca, IL 60143 630-250-3045 www.netsteps.net | New Albany, IN 47151-0109 800-937-3865 ext. 202 www.proxymed.com/www.keycom.com |
| See accompanying article on page 68 | <u>ของ 200-200-40</u> พพพพพ.เกตเอเตมอ.เกตเ | 337-3003 GAL ZOZ WWW.proxymeu.com/www.keycom.com |
| Name of POLL software/system | Laboratory Connectivity Suite | ProxyMed.com |
| • | | • |
| First/most recent installation of software/system | 1999/2001 | 1992/2001 |
| No. of host lab contracts signed by 2/1/01 but not yet operational No. of contracts signed between 2/1/00 and 2/1/01 | 2 2 | 10 23 |
| No. or contracts signed between 2/1/00 and 2/1/01 Where software was developed | USA | USA |
| oottiidio itao aotolopou | | |
| No. of host or central labs using software clinically/No. of satellite locations installed | 12/20 | 13/113 |
| No. of host labs that electronically transfer orders from PO* to LIS | 0 | 0 |
| Staff to develop-install-support-other** in entire firm/in POLL division | _ | 40-20-10-210/25-n/a-5-n/a |
| Hardware (in addition to LIS) required in central lab?/Type and operating system | yes/Net server (NT or UNIX) | no/— |
| | יייייייייייייייייייייייייייייייייייייי | 1107 |
| Specialized hardware in central lab facility | _ | _ |
| Software programming language, other tools or products used or integrated | Java, RDBMS | _ |
| Database of patient orders and results housed outside client lab or PO? | yes—if client chooses external hosting | always |
| Hardware type and operating system used in PO | PC | _ |
| Specialized hardware used in PO | _ | _ |
| Programming language, other tools or products used or integrated in PO | Web browser | _ |
| Average time to install, build files, train office staff in a typical PO | 1 hr | 1 hr |
| LIC IIIC and allow interferen | CMC Communical Market and IDOC IDAY (10 IDV DD) | 00A Aukim/Comment No. 11 1 000 |
| LIS, HIS, and other interfaces | SMS, Sunquest, McKessonHBOC, IBAX, ALG, IDX, TDS, others | CCA, Antrim/Sunquest, Meditech, CSS |
| Software modifications or modules required on host LIS to interface | no . | no |
| POPMS*** used to transfer patient demographics/billing info. to POLL system | _ | _ |
| | | |
| Can one PO simultaneously support or interface to many host labs? | yes | yes |
| Test directory on PO system?/PO system can store many labs' directories at once? | no/yes | hlock of toyt |
| How results are returned to PO | individually segmented fields | block of text |
| Data interface standards supported/System supports LOINC? | HL7, custom when required/yes | HL7/no |
| System architecture or functionality | standard Web browsers | _ |
| | | |
| Patient order and result database maintained on local PC? | no | no |
| Online connections between PO and central or host system | virtual private network, dial-up telephone modem, public Internet connection, leased line | virtual private network, public Internet connection |
| | Connection, leased line | |
| Complete ASP solution for POLL software? | yes | yes |
| Method of charging for ASP service | fixed fee | transaction-based |
| Client software required | browser-based | browser-based |
| ASP information conduit | operates over Internet | operates over Internet |
| Client contracts supported from data center not operated by client How data center is operated | 2 by a third-party | all by vendor |
| | , | ., |
| Features (listed as percentage of live installs or whether or not it's available) | | |
| Order entry | | |
| Medicare compliance checking using carrier-specific rules Advanced baneficiary notice printed if medical passes; to criteria not met | available but not installed | _ |
| Advanced beneficiary notice printed if medical necessity criteria not met Local medical review policies can be viewed | available but not installed available but not installed | _ |
| Automatic routing of an order to different labs according to payer rules | available but not installed | _ |
| - Printing of lab's requisitions/Printing of requisitions for other lab providers | available but not installed/available but not installed | _ |
| - Duplicate order checking/Physician office-specific panels | available but not installed/available but not installed | - |
| Electronic order entry (from P0 to host) Transfer of national demographics (insurance) | available but not installed | |
| Transfer of patient demographics/insurance Automatic handling of scheduled/standing orders | available but not installed available but not installed | _ |
| Automatic nanthing of scrieduled/standing orders Automatic routing of orders to hospital/commercial labs depending on payer rules | available but not installed | _ |
| Bar-code collection label printing | available but not installed | _ |
| Result receipt | | |
| - Stored as a block of text | 100% | 100% |
| - All items (result, reference range, units) stored as individual data elements | 100% 100% | not available |
| Automatic parsing of report pages to extract results Inquiry mode that allows PO to check status of specimens with host | 100% | not available |
| Reporting | | 21 |
| - In exact format received from host lab/Cumulative | 100%/100% | 100%/not available |
| - Integration of host and PO lab results | 100% | not available |
| - Display of new results for patient and/or clinic | 100% | 100% |
| Remote access available to on-call physicians User-defined rule-based system and alerts in PO module | 100% available but not installed | 100% |
| User-defined rule-based system and alerts in PO module Electronic transfer of data to another PO | 100% | _ |
| PO orders supplies from host lab/Specimen pickup or courier requests to host lab | available but not installed/available but not installed | _ |
| Other functionality | | |
| - Billing/collections/accounts receivable | not available | - |
| - Electronic claims transfer/Electronic medical record | available but not installed/100% | _ |
| - Interfaces to PO lab instruments/Interfaces to billing systems | not available/available but not installed | _ |
| Length of time results are maintained online in PO system | indefinitely | 30 days |
| Length of time copy of original report can be reproduced by system | indefinitely | varies |
| Data from system put in electronic archive?/Index to archive maintained online? | yes/yes | yes/no |
| Contam unicad on a cost and translation by 10 | | use (demandant on |
| System priced on a cost-per-transaction basis? | no. | yes (dependent on volume) |
| | no N | you (automatine on Tolamo) |
| Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance | | _ |
| | | |
| Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance • Smallest system for host lab:largest system for host lab • Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/For increments of Nos. of P0s? |) _ _ _ | _ |
| Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance • Smallest system for host lab:largest system for host lab • Smallest system for P0:largest system for P0 |) _ _ _ | |
| Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance • Smallest system for host lab:largest system for host lab • Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/For increments of Nos. of P0s? Extra license fee for each addt'l workstation at P0?/Fee based on No. of phys. of record? |) _ _ _ _ | no/no no/no |
| Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance • Smallest system for host lab:largest system for host lab • Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/For increments of Nos. of P0s? | Proven reliability, scalability, and rapid deployment | no/no no/no • PDF generation of reports and forms |
| Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance • Smallest system for host lab:largest system for host lab • Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/For increments of Nos. of P0s? Extra license fee for each addt'l workstation at P0?/Fee based on No. of phys. of record? |) _ _ _ _ | no/no no/no |
| Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance • Smallest system for host lab:largest system for host lab • Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/For increments of Nos. of P0s? Extra license fee for each addt'l workstation at P0?/Fee based on No. of phys. of record? | proven reliability, scalability, and rapid deployment Web-based; integrates any LIS and legacy system | no/no no/no • PDF generation of reports and forms • auto-print of results—unattended operation |
| Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance • Smallest system for host lab:largest system for host lab • Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/For increments of Nos. of P0s? Extra license fee for each addt'l workstation at P0?/Fee based on No. of phys. of record? Distinguishing features (supplied by vendor) | proven reliability, scalability, and rapid deployment Web-based; integrates any LIS and legacy system | no/no no/no • PDF generation of reports and forms • auto-print of results—unattended operation |
| Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance • Smallest system for host lab:largest system for host lab • Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/For increments of Nos. of P0s? Extra license fee for each addt'l workstation at P0?/Fee based on No. of phys. of record? | proven reliability, scalability, and rapid deployment Web-based; integrates any LIS and legacy system | no/no no/no • PDF generation of reports and forms • auto-print of results—unattended operation |
| Cost (hardware/one-time software license fee/mo. lic. fee/implement. fee/mo. maintenance • Smallest system for host lab:largest system for host lab • Smallest system for P0:largest system for P0 Extra license fee due for each additional P0?/For increments of Nos. of P0s? Extra license fee for each addt'l workstation at P0?/Fee based on No. of phys. of record? Distinguishing features (supplied by vendor) *P0=physician's office | proven reliability, scalability, and rapid deployment Web-based; integrates any LIS and legacy system | no/no no/no • PDF generation of reports and forms • auto-print of results—unattended operation |

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|---|--|---|
| Name of POLL software/system | Outreach Express | Quick-Req |
| First/most recent installation of software/system No. of host lab contracts signed by 2/1/01 but not yet operational No. of contracts signed between 2/1/00 and 2/1/01 Where software was developed | 1998/2001 5 10 USA | 1997/2001 0 2 USA |
| No. of host or central labs using software clinically/No. of satellite locations installed No. of host labs that electronically transfer orders from PO* to LIS Staff to develop-install-support-other** in entire firm/in POLL division | 10/1,625 1 24-8-22-738/8-4-6-0 | 5/100 0 8-5-8-2/2-1-2-0 |
| Hardware (in addition to LIS) required in central lab?/Type and operating system Specialized hardware in central lab facility Software programming language, other tools or products used or integrated Database of patient orders and results housed outside client lab or PO? | no/Compaq Proliant servers, Windows NT RAID Array-disk storage Windows NT, MS SQL server 7.0, Data Passport II, others always | yes/IBM-compatible PC w/ Windows 95, 98, NT, 2000 PDF 417 decoded bar-code scanner none never |
| Hardware type and operating system used in PO Specialized hardware used in PO Programming language, other tools or products used or integrated in PO Average time to install, build files, train office staff in a typical PO | Intel-based PC, Windows 95, 98, NT, 2000 MS Internet Explorer 4.0 or higher 2 hrs | IBM-compatible PC w/windows 95, 98, NT, 2000 none 4 hrs |
| LIS, HIS, and other interfaces Software modifications or modules required on host LIS to interface | Triple G, Cerner, McKesson HBOC, MEDITECH, Sunquest, Soft, STS no | OpenLab no (entry is via scan of two-dimensional bar code) |
| POPMS*** used to transfer patient demographics/billing info. to POLL system | prefer one-time upload | _ |
| Can one PO simultaneously support or interface to many host labs? Test directory on PO system?/PO system can store many labs' directories at once? How results are returned to PO | yes no/yes block of text or individually segmented fields | no yes/no — |
| Data interface standards supported/System supports LOINC? | ASTM 1238, HL7, custom when required, microscript/terminal capture/no | HL7, PDF bar-code scan/no |
| System architecture or functionality | standard Web browsers | thick client PC (for select functions) |
| Patient order and result database maintained on local PC? Online connections between PO and central or host system | no virtual private network, dial-up telephone modem, public Internet connection, leased line, DSL, cable modem, Sprint Broadband, satellite | no online connection available |
| Complete ASP solution for POLL software? Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated | yes fixed fee browser-based operates over Internet 9 by a third-party (Exodus) | no — — — — — — |
| Order entry | \$0/\$15k/\$6k/—/—:\$15k/\$15k/\$6k/—/— \$0 | 100% 100% 100% 100% not available 100%/not available not available/100% not available 20% via bar-code scan not available not available/not available — yes/no no |
| Extra license fee due for each additional PO?/For increments of Nos. of POs? Extra license fee for each addt'I workstation at PO?/Fee based on No. of phys. of record? Distinguishing features (supplied by vendor) | no/no no/no • Web-based product functional on the Internet for almost four years | yes/no yes/no • simple and easy to use • low-cost compliance system |
| *P0=physician's office **other=sales, marketing, administration, other company functions ***P0PMS=physician office practice management systems | product branded to host hospital laboratory system designed by a reference lab for hospitals and labs | easy import/export of configuration changes *excluding scanner |